



To:	TSSA	From:	Janet Townsend
Company:	Engineered Controls International, LLC	Phone:	416-747-4291
Pages:	9	Location:	Toronto
Our File:	ANR-4467	Date:	May 15, 2017

Your File: 2036162

Subject: Request for Design Registration

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Engineered Controls International, LLC.

These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0H19173.56.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

Janet Townsend
Program Manager
CSA Group

178 Rexdale Blvd.
Toronto, ON, M9W 1R3



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

REGO[®]

STATUTORY DECLARATION Registration of Fittings

I, CHAD THOMAS, VP GLOBAL ENGINEERING
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ENGINEERED CONTROLS INTERNATIONAL, LLC
(Name of Manufacturer)

Located at 100 REGO DRIVE, ELON, NC - 27244 336-449-7707
(Plant Address) (Telephone No.) (Fax No.)

☒ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO90001 which has been verified by the following authority, UNDERWRITERS LABORATORY INC

The items covered by this declaration, for which I seek registration, are category "H" type fittings. In support of this application, the following information and/or test data are attached as follows:

SEE ATTACHED LIST

(drawings, calculations, test reports, etc.)

Declared before me at Elon in the State of North Carolina
the 4th day of November AD 20 16

Commissioner for Oaths:

Brenda J. Bucci

(Printed name)

Brenda J. Bucci

(Signature)

My Commission Expires: April 17, 2021

BRENDA J. BUCCI
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

Chad M. Thomas

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category H

CRN: CSA-0H19173.56

Registered by: A. BANWATT

Dated: MAY 11, 2017

NOTE: This registration expires on: FEB 14, 2021

REGISTERED

CRN: CSA-0H19173.56

Registration Process administered by
CSA Group per CSA B51



REGISTERED



CRN: CSA-OH19173.56

Registration Process administered by
CSA Group per CSA B51

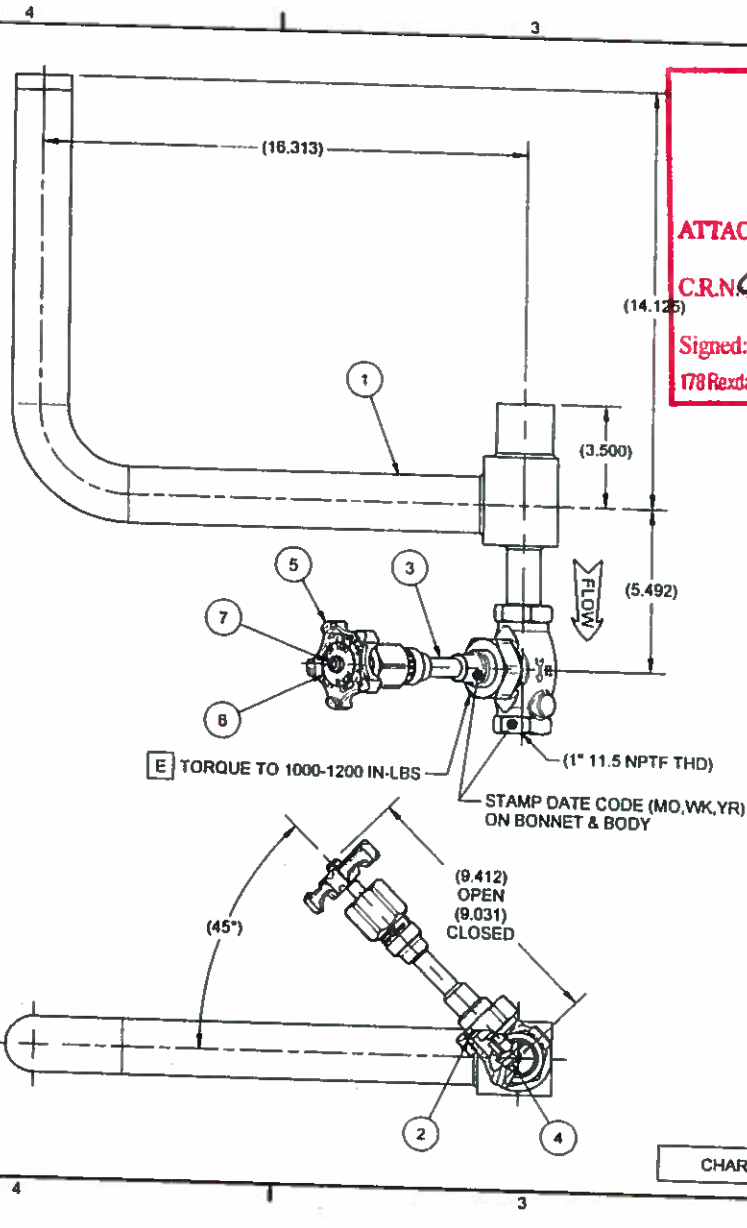
Technical Review performed per CSA B51
Performed by: ANRIC Enterprises Inc.

Signed: [Signature]

Date: 11 May, 2017



Cecylia Garbatz, a Commissioner, etc.
City of Toronto, for the Technical
Standards & Safety Authority
Expires June 17, 2017



1 of 3

ATTACHMENT TO

CR.N.

Signed:

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN 0410173

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

REVISION HISTORY

REVISION HISTORY		
REV	DATE	DESCRIPTION
A-E		REV
F	AG340, 8-6-09	REV

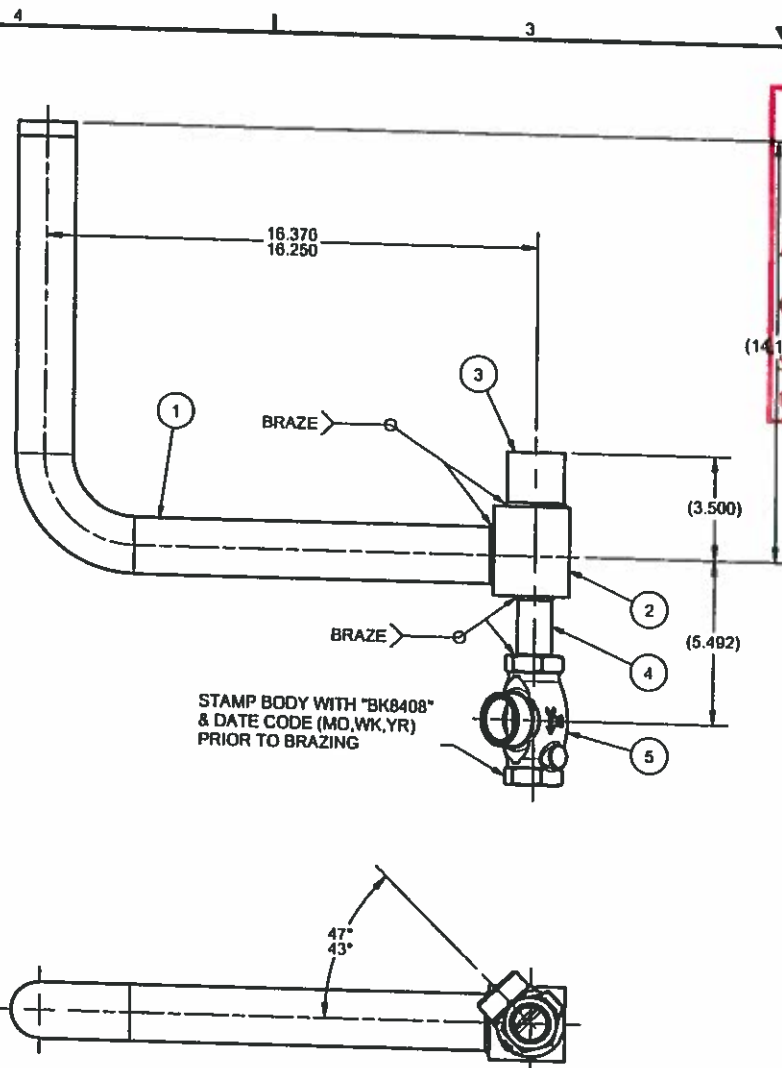
NOTES:

1. CLEAN & PACKAGE PER B-11550-400 OXYGEN SERVICE. ASSEMBLE IN CLEAN AREA.
2. TEST PER B400-100.
3. ATTACH TORQUE TAG TO HANDWHEEL.
4. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT AND SEAL OPENINGS.

NOTE: DESIGN PER B 31-1 code
MAWP 600 PSI. -320°F TO 165°F

E F	9	1	TAG-TORQUE (1100) (NOT SHOWN) SEE NOTE 3		B-8403-50C
	8	1	WASHER (NOT SHOWN, PLACE UNDER TAG)		450028
	7	1	NUT, LOCK		7505A-13SS
	6	1	TAG, VALVE		11573-507
	5	1	HANDWHEEL		2507-15C
	4	1	SEAT DISC ASSY		B-8408-7
	3	1	KIT, UPPER ASSY (UNTESTED)		B-8408-KITU
	2	1	GASKET		B-8408-1
	1	1	BRAZED ASSY		MVE5C-2
ITEM		QTY	DESCRIPTION		PART NUMBER
DRAWN		ISSUED DATE		ENGINEERED CONTROLS INTERNATIONAL, LLC. REPO R400 CRYO-FLOW ELON, N.C. 27244 BURLINGTON, N.C. 27215 THIS DRAWING IS ECI PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
N.LEE		12/1/2000			
CHECKED		CHECKED DATE			
T. TICKLE		9/6/2013			
DISPECTED		DISPECTED DATE			
J. HOWARD		10/25/2013			
APPROVED		APPROVED DATE		VENT ASSY	
D. GENTILE		10/29/2013			
REFERENCE NUMBER		IDENTIFIER			
PROJECT NUM		VARIANT DIM	SCALE		
			1/4	F	DWG SIZE
					B

APPROVED/CONTROLLED

CSA
Group

> OF 3

ATTACHMENT TO

C.R.N. CSA-BH19173.56Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN BH19173.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program


REVISION HISTORY		
REV	DATE	DESCRIPTION
A-C		REV
D	2011-479, 12-5-11	REV

NOTES:

1. APPLY 11550-76 FLUX.
2. BRAZE WITH 702670 BRAXING ALLOY.
3. CLEN PER 11550-36.
4. STORE CLEAN.

5	1	BODY	B-9408ST-1
4	1	TUBING	1337-2
3	1	STUB, PIPE	1337-57
2	1	TEE	2227-23
1	1	PIPE, BENT	1337B-22D
ITEM	QTY	DESCRIPTION	PART NUMBER
DRAWN	N LEE	ISSUED DATE	12/1/2000
CHECKED	T. TICKLE	CHECKED DATE	9/3/2013
INSPECTED	J. HOWARD	INSPECTED DATE	9/3/2013
APPROVED	D. GENTILE	APPROVED DATE	9/3/2013
REFERENCE NUMBER		IDENTIFIER	
PROJECT NUM		SCALE	1/4
VARIANT DIM		REV LEVEL	D
		UNLESS OTHERWISE SPECIFIED: 2 PL DEC 0.015 3 PL DEC 0.02 4 PL DEC 0.005 ANGLES 4°	ENGINEERED CONTROLS INTERNATIONAL, LLC. REBO ELON, N.C. 27744 BURLINGTON, N.C. 27215 THIS DRAWING IS ECI PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.
		CONCENTRICITY .010 FIM FINISH 125 MAX, REMOVE BURRS, BREAK SHARP EDGES R.015 MAX INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994	TITLE BRAZED ASSY FOR VENT ASSY
		A CHANGES GAUGES 1	DRAWING NUMBER MVE5C-2
			OWN SIZE B

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE5C	Vent Assembly	B-9407-1C	B-9408ST-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			2227-23	2227-23	FC Brass, UNS C36000, ASTM B16	600
			1337B-22 SER	1337B-22D	Stainless Steel Pipe, ASTM A312, TP304L	600
			1337-57	1337-57	Stainless Steel Pipe, ASTM A312, TP304L	600
			1337-2	1337-2	Stainless Steel Pipe, ASTM A249, TP304L	600


CSA Group

30F3

ATTACHMENT TO

C.R.N. CSA-0H19.73.56

Signed... *Alf B. West*

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN 0H19.73.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program



CERTIFICATE



This is to certify that

Engineered Controls International, LLC

100 Rego Drive
Elon, NC 27244
United States of America

with the organizational units/sites as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:

The design and manufacture of valves, regulators and fittings for the L.P. Gas, Anhydrous Ammonia, LNG, and Compressed Gas Industries.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Certificate registration no.	10001523 QM08
Date of original certification	1994-10-04
Date of certification	2015-12-22
Valid until	2018-09-14



DQS Inc.

Ganesh Rao
Managing Director



Annex to Certificate
Registration No. 10001523 QM08

Engineered Controls International, LLC

100 Rego Drive
Elon, NC 27244
United States of America

Location

10003889
Engineered Controls International, LLC
3181 Lear Drive
Burlington, NC 27215
United States of America

10003890
Engineered Controls International, LLC
911 Industrial Drive S.W.
Conover, NC 28613
United States of America



March 2017

CRN – Canadian Registration Numbers - Saskatchewan

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in Saskatchewan Canada.